

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. An attachment means for a ground drilling or cutting tool that enables cutting elements to be removably secured to said tool, said attachment means including:

a first surface on said cutting element,

5 a second surface on said tool upon which said first surface locates,

dowel holes in each of said first and second surfaces that align when said first and second surfaces locate together,

a dowel that locates in said aligned dowel holes,

engagement surfaces on said cutting element and said tool that, extend

10 substantially parallel to the longitudinal axis of said tool, and engage to resist side loads applied to said cutting elements, and

fastening means securing said cutting element to said tool.

2. An attachment means according to claim 1 wherein said cutting element

15 comprises a conical roller cutter and said first surface comprises a surface on the arm of said roller cutter.

3. An attachment means according to either claim 1 or claim 2 wherein said dowels are normal to both said first and second surfaces.

20

4. An attachment means according to claim 3 wherein there are at least two dowels.

25 5. An attachment means according to any one of the preceding claims wherein said engagement surfaces comprise a recess on one of said surfaces and a projection on the other of said surfaces that engages said recess.

6. An attachment means according to claim 5 wherein said recess comprises a longitudinal channel.

7. An attachment means according to claim 6 wherein said channel has a base that is parallel to said first or second surface and side walls that are substantially normal to said base.

5 8. An attachment means according to claim 7 wherein said projection matches the internal shape of said channel.

9. An attachment means according to any one of claims 6 to 8 wherein said channel is on said second surface.

10 10. An attachment means according to any one of the preceding claims wherein said cutting element also comprises a mounting box to which it is attached wherein said first surface is on said mounting box.

15 11. An attachment means according to any one of the preceding claims wherein said fastening means comprises a plurality of threaded fasteners.

12. An attachment means according to claim 11 wherein said first surface has apertures through which said bolts locate and threaded apertures in said second surface that are engaged by said bolts.

20 13. An attachment means according to claim 12 wherein there is clearance between the apertures in said first surface and said bolts so that shear load applied to said bolts is minimised.

25 14. An attachment means substantially as herein described with reference to the accompanying drawings.